SOKOLOV, V.A.; TOLSTOY, N.A.

Thermoluminescence and thermally stimulated current from TICl single crystals. Opt. 1 spektr. 19 no.1:97-101 J1 '65.

(MIRA 18:8)

<u>L 61824-65</u> EWT(1)/EWT(m)/EWG(m)/T/EWP(t)/EEC(b)-2/EWP(b) P1-4 IJP	(c)
RDW/JD/GG ACCESSION NR: AP5017908 UR/0051/65/019/0 548.0:535	01/0142/0143 27
AUTHOR: Adrianova, I. I.; Dreyden, G. V.; Dubenskiy, K. K.; Popov, Yu. Sokolov, V. A.	v.; 26
TITIE: Electro-optical effect in ZnSe crystals SOURCE: Optika i spektroskopiya, v. 19, no. 1, 1965, 142-143	
TOPIC TAGS: electrooptical effect, zinc selenide, synthetic crystal	
ABSTRACT: The authors report that they observed the electro-optical efficients synthetically grown from a melt under pressure (Optiko-mekhanino. 5, 29, 1962). A noticeable electro-optical effect was previously of	h. promyshl.
in CuCl and ZnS crystals, which are not encountered in nature in large	izes and
which are difficult to grow artificially. An x-ray structural analysis grown crystals has shown that they have a cubic structure with the (110 pendicular as a rule to the growth axis. Photographs illustrating the	plane per-
the crystals in an electric field are presented. Since the crystals ob	ained so
far were not optically isotropic, the electro-optical coefficients were mined. It can be assumed, however, that these coefficients are not lower. It can be transmission test showed these crystals to be transpared.	r than in
Card 1/2	

hutters. "The authors thank :: 2 figures. [02]
SUB CODE: SS,OP
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Stanton, V.A., Tolston, N.A.

Mechanism underlying the induced luminescence (and photoconductivity)
of theilium chloride. Izv. AN SSSR. Ser.fiz. 29 no.3:472.474 Mr 165.

(MIRA 18:4)

L 26481-66 EWT(1) IJP(c)

ACC NR: APG013069

SOURCE CODE: UR/0048/66/030/004/0633/0636

AUTHOR: Sokolov, V.A.; Vol'kenshteyn, F.F.; Brik, O.G.; Kondratenko, M.B.

30 B

ORG: None

TITLE: Concerning the role of radical-recombination processes in candoluminescence /Report, Fourteenth Conference on Luminescence held in Riga 16-23 September 1965/

SCURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 30, no. 4, 1966, 633-636

TOPIC TAGS: recombination luminescence, chemiluminescence, candoluminescence

ABSTRACT: Although candoluminescence - luminescence under the influence of a flame - has been questioned for many years, the authors assert that the existence of this phenomenon has definitely been proved. The mechanism of candoluminescence was hypothetically developed by one of the authors (F.F.Vol'kenshtein, Elektronnaya teoriya kataliza na poluprovodnikakh, Fizmatgiz, Moscow 1960) on the basis of the electronic theory of catalysis and chemisorption on semiconductors and has been discussed and described in other publications by F.F.Vol'kenshtein et al. According to this mechanism excitation occurs at the expense of the energy released incident to recombination of free atoms and radicals in the flame on the surface of the phosphor. In the present paper there are adduced the inferences based on the radical-recombination theory as regards the influence of extraneous gaseous impurities on the intensity of cando-

Card 1/2

L 26481-66

ACC NR. AP6013069

luminescence and there are described the results of attempts at experimental verification of the predictions. The inert gas employed in the main experiments was nitrogen and the phosphor was ZnS·CdS:Cu. A figure gives curves characterizing the variation of the luminescence intensity of the phosphor with the nitrogen concentration at different temperatures. Another figures shows analogous curves characterizing the influence of CO and O₂. Comparative experiments to evaluate the recombination coefficient were carried out with non-luminescing CuO. On the basis of general analysis of the data it is concluded that radical-recombination processes play a significant role in excitation of low-temperature luminescence (which, it is asserted, is true luminescence according to the Vavilov-Wiedemann criterion) but also in excitation of high-temperature candoluminescence, which is a special form of equilibrium emission that is not true luminescence. Orig. art. has: 2 formulas and 3 figures.

SUB CODE: 20/

SUEM DATE: 00/

ORIG REF: 007/

OTH REF: 001

Card 2/2

Sokolov, V. A. History of black body radiation law. (On the investigations of V. A. Michelson, P. 275

SO: Uspekhi Achievements in Physical Sciences, 43, No. 2 (Feb. 1951)

SONELLU, VIT

PHASE I BOOK EXPLOITATION SOV/4563

- Metody polucheniya i izmereniya radioaktivnykh preparatov; sbornik statey (Methods for the Production and Measurement of Radioactive Preparations; Collection of Articles) Moscow, Atomizdat, 1960. 307 p. Errata slip inserted. 6,000 copies printed.
- General Ed.: Valeriy Viktorovich Bochkarev; Ed.: M.A. Saguro; Tech. Ed.: N.A. Vlasova.
- PURPOSE: This collection of articles is intended for scientific and technical personnel working in the production of radioactive isotopes.
- COVERAGE: The collection contains original studies on methods of obtaining and measuring radioactive preparations. According to the foreword, the articles contain new data, and are of theoretical or practical interest to the extent that they discuss methods or give process information. In addition to several survey articles the collection contains discussions on the production of radioactive isotopes and inorganic radioactive preparations, including a number of carrier-free isotopes and several colloidal and other therapeutic preparations. Also discussed are methods for preparations.

Methods for the Production (Cont.)

SOV/4563

ing a number of tagged organic compounds, problems in the analysis of tagged organic compounds, the absolute and relative measurement of activity, and the radiometric analysis of preparations. New instruments and equipment are described and instructions concerning measurement methods and technique are included. V.I. Levin, Candidate of Chemical Sciences, V.P. Shishkov, Candidate of Technical Sciences, I.N. Bukharov, Candidate of Biological Sciences, and V.I. Shostak, Candidate of Chemical Sciences, are mentioned as having helped directly in the selection and preparation of the material for publication. References accompany each article.

TABLE OF CONTENTS:

Foreword

3

PART I. PRODUCTION OF INORGANIC RADIOACTIVE PREPARATIONS

Levin, V.I. Production of Radioactive Isotopes and Compounds

9

Levin, V.I. Production of Radioactive Elements - Fission Products 14

Gard 2/8

SOKCLOV, V. A. (Acad of Medical Scis, USSR)

"Investigation of Isotopic Exchange in the System ${\rm CS}_2$ - ${\rm S}^{35}$ for Obtaining Tagged Carton Disulfide"

Isotopes and Radiation in Chemistry, Collection of papers of 2nd All-Union Sci. Tech. Conf. on Use of Radioactive and Stable Isotopes and Radiation in National Economy and Science, Moscow, Izd-vo AN SSSR, 1958, 380pp.

This volume published the reports of the Chemistry Section of the 2nd AU Sci Tech Conf on Use of Radioactive and Stable Isotopes and Radiation in Science and the National Economy, sponsored by Acad Sci USSR and Main Admin for Utilization of Atomic Energy under Council of Ministers USSR Moscov 4-12 Apr 1957.

PHASE I BOOK EXPLOITATION

SOV/4971

Sokolov, V. A., Ye. A. Tikhomirova, and N. A. Kosolapova

Radioaktivnyy izotop sery S³⁵ (Radioactive Sulfur Isotope S³⁵)
Moscow, Atomizdat, 1960. 25 p. Errata slip inserted.
5,000 copies printed.

Ed.: Z. D. Andreyenko; Tech. Ed.: Ye. I. Mazel'.

PURPOSE: This brochure is intended for scientific personnel working with radio isotopes and for the general reader interested in the subject.

COVERAGE: The author discusses, in a popular form, the physical properties and methods of preparing the radio-active isotope S35, as well as its various uses in scientific research, medicine, and industry. Two tables of data, one diagram, and one photograph are included. No personalities are mentioned. There are 17 references, all Soviet.

Card 1/2

PHASE I BOOK EXPLOITATION

sov/5142

Sokolov, V.A., and I.A. Kulagina

Radicaktivnyy izotop kalitsiya - Ca⁴⁵ (Radioactive Calcium Isotope - Ca⁴⁵)
Moscow, Atomizdat, 1960. 17 p. 6,000 copies printed.

Ed.: G.M. Pchelintseva; Tech. Ed.: N.A. Vlasova.

PURP(SE: This booklet is intended for readers with some previous knowledge of radiochemistry and an interest in the applications of radioactive isotopes.

COVERAGE: The booklet deals with the radioactive properties of isotopes, production methods for Ca⁴⁵, and synthesis of compounds tagged with Ca⁴⁵. Examples of Ca⁴⁵ application in science and technology are cited. Principles of accident prevention in work with this isotope are given. Seven preparations containing Ca⁴⁵ that are produced in the Soviet Union are listed in tabular form along with their characteristics and price. No personalities are mentioned. There are 10 references, all Soviet.

TABLE OF CONTENTS:

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CIA-RDP86-00513R001652020017-7 "APPROVED FOR RELEASE: 08/25/2000 AFFTC/ASD/ESU-EPF(c)/EWT(l)/EWP(q)/EWT(m)/BDS 5/2935/62/000/000/0179/0192 GG/RM/WW/JD/MAY/JFW/JG L 18992-63 AUTHOR: Voltkenshteyn, F. F.; Gorbant, A. N.; Sokolov, V. A. ACCESSION NR: AT3002452 TITLE: Processes of recombination of free radicals on a semiconductor surface TITLE: Processes of recombination of free radicals on a semiconductor surface and their role in luminescence Conference on Surface Properties of Semiconductors. Institute of Electrochemistry, AN SSSR, Moscow, 5-6 June, 1961 SOURCE: Poverkhnostnyye svoystva poluprovodnikov. Moscow, Izd-vo AN SSSR. TOPIC TAGS: semiconductor, semiconductor-surface characteristics, 1962, 179-192 ABSTRACT: On the basis of the electronic theory of chemosorption and catalysis, ABSTRACT: On the pasts of the electronic theory of chemosopption and catalys the radical recombination mechanism of luminescence is examined, as well as juminescence, surface recombination the radical recombination mechanism of luminescence is examined, as well as some consequences ensuing from that mechanism. A theoretical and experimensome consequences ensuing from that mechanism. A theoretical and experimental investigation is reported of the effect of an external transverse electric field upon the intensity of candoluminescence. Luminescence is considered as Card 1/2

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ACCESSION NR: AT3002452

consisting of two steps: ionization and neutralization of an activator atom; the accompanying phenomena are explained and pictorially represented. A new formula describing the intensity of luminescence is developed, and the effect of the Fermi level on the intensity is investigated. The effect of the electric field on candoluminescence was studied in a special device on a ZnS·CdS copperactivated phosphor placed in a low-temperature lighting-gandflame? Potentials phosphor zone, and the variation in the luminescence intensity was measured. The experiments are interpreted as corroborating the probability of the radical-recombination mechanism. Orig. art. has: 7 figures and 26 formulas.

ASSOCIATION: Institut khimicheskoy fiziki AN SSSR (Institute of Chemical Physics, AN SSSR); Institut fizicheskoy khimii AN SSSR (Institute of Physical Chemistry, AN SSSR)

SUBMITTED: 00

DATE ACQ: 15May63

ENCL: 00

SUB CODE: PH

NO REF SOV: 009

OTHER: 002

Card 2/2

SOKOLOV, V.A.; GORBAN', A.N.; NAZIMOVA, N.A.

"Selectivity" of the thermal radiation of CaO and: MgO. Opt.
i spektr. 11 no.2:273-274 Ag '61.

(Calcium oxide) (Magnesium oxide) (Radiation)

(Calcium oxide) (Magnesium oxide) (Radiation)

SOKOLOV, V.A.; KONDRAT'YEVA, T.I.

Preparation of medical applications with various radioactive isotopes on the basis of ion exchanging materials. Med.rad. (MIRA 15:1)

no.1:28-32 '62. (MIKA 15: (MIKA 15: (ION EXCHANGING SUBSTANCES) (RADIOISOTOPES—THERAPEUTIC USE)

SOMOLOV, Viktor Aleksandrovich; KARFOVA, T.V., red.; FOFOVA,
S.M., tekhn. red.

[I¹³², the short-lived iodine isotope] Korotkoshivushchii
isotop ioda - J¹³². Moskva, Gosatomizdat, 1963. 21 p.

(MIRA 16:10)

(Iodine isotopes)

EWT(m)/T L 1596-66

AM4048142

BOOK EXPLOITATION

661.183: 66.071.7

Sokolov, Vasiliy Andreyevich; Torocheshnikov, Nikolay Semenovich; Kel'tsev, Nikolay Vladimirovich

Molecular sieves and their use (Molekulyarnyye, sita i ikh primeneniye) Moscow, Izd-vo "Khimiya", 1964. 0155p. illus., biblio. 2,300 copies printed.

TOPIC TAGS: petrochemistry, chemical separation, hydrocarbon, analytic chemistry, molecular sieve, zeolite, crystal

PURPOSE AND COVERAGE: The book is a presentation both on the properties and application of molecular sieves in purification and separation of gaseous and liquid mixtures. The structures of natural and artifical zeolites used as molecular sieves are described. Included are also methods for their practical use in various branches of technology for drying, purification and separation of hydrocarbons. Research results on membranes and films made from some materials and used in capacity of molecular sieves are presented. The book is inteneded for engineers and technicians in oil, gas and petrochemical industry.

Card 1/2

L 15 APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020017\7" Ch. I. Porous crystals and their properties as molecular sieves Use of molecular sieves for drying and purification of gases and AM4048142 TABLE OF CONTENTS (abridged):

Ch. III. Use of molecular sieves for separation of gases and liquids - - 76

Ch. IV. Use of zeolites in chemical synthesis = 126 Ch. V. Use of molecular sieves in analytical chemistry. 133 Ch. II.

Ch. VI. Molecular sieves of membrane and film shape

SUB CODE: NP, GC

MR REF SOV: 063

11Mar64 SUBMITTED:

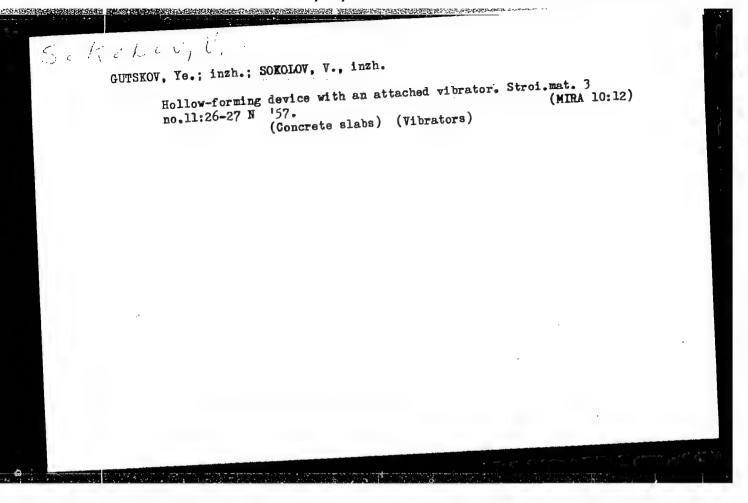
OTHER:

SOKOLOV, V.A., inzh.; SARYCHEV, I.I., SOKOLOV, V.A., inzh.; SARYCHEV, I.I., SOROKER, V.I., doktor tekhn. nauk; SOKOLOV, V.A., inzh.; SARYCHEV, I.I., kand. tekhn. nauk, red.; GARNUHHRA, L.A., tekhn. red.

[Using pressure in the molding of products from stiff concrete mixes]
Primenenie prigruzki pri formirovanii izdelii iz zhestkikh betonnykh smesei. Moskva, Gos. izd-vo lit-ry po stroit. materialam,
nykh smesei. Moskva, Gos. izd-vo lit-ry po (MIRA 11:8)
1957. 24 p.

1. Gosudarstvennyy Vsesoyuznyy nauchno-issledovatel'skiy institut zhelezobetonnykh izdeliy i nerudnykh materialov.

(Precast concrete)



SOKOLOV, V. A.: Master Tech Sci (diss) -- "The technological principles and methods of forming large, hollow wall blocks". Moscow, 1958. 18 pp (Acad Construction and Architecture USSR, Sci Res Inst of New Construction Materials, Parts, and Equipment of Buildings), 220 copies (KL, No 1, 1959, 121)

AUTHOR: Sokolov, V.A., Engineer. Sov/97/58/2/9/16

TITLE: The Function of Anchoring Shields during Casting of Products from Stiff Concrete Mixes. (Rol'prigruz-ochnykh shchitov v formovke izdeliy iz zhestkikh

betonnykh smesey).

PERIODICAL: Beton i Zhelezobeton, 1958 Nr 2, pp 71-72.

ABSTRACT: This shield provides an anchoring base for an inflatable rubber pillow which, by means of expansion, forces down the top of the steel form in which the concrete product is thereby consolidated. This method is preferable to that of vibration inasmuch as the process is far quicker, the consolidation more effective and the strength of the concrete product much higher. Figure 1 shows a plan of the consolidation using the above-mentioned devices, and Figure 2 illustrates the consolidation of the concrete carried out in the same way during casting of whole floor slabs. The VNIIZhelezobeton together with factory Nr 6 of Glavnoszhelezobeton carried out tests on the degree of consolidation using various loads and the above-described devices,

Card 1/2

sov/97/58/2/9/16

The Function of Anchoring Shields during Casting of Products from Stiff Concrete Mixes.

as defined by N.B. Dardik in an article entitled "Construction and Anchoring Devices and the principle on which they operate", published in "Concrete and Reinforced Concrete, 1957, Nr 8. The Laboratories for silica and light concrete products of the Institute of Building Technology of the Academy of Building and Architecture of USSR established that the optimal weight during casting of light concrete products should be 50-75G/cm². In the factory Nr 4 of Glavmoszhelezabeton, tests were carried out using loading of 100G/cm, but for this loading the concrete mix must be much harder. It was found that loading of 200g/cm² was quite effective. The use of these implements for consolidation speeds up the casting time, increases the strength of the concrete product and reduces the likelihood of cracks in whole concrete products. There are two figures.

Concrete--Casting
 Rubber--Applications
 Concrete--Pre-paration
 Concrete--Physical properties

Card 2/2

RABINOVICH, David L'vovich; SOKOLOV, Vladimir Aleksandrovich; SOROKER, V.I., red.; KIRYUSHIN, V.I., otv. za vypusk; SUKHAREVA, R.A., tekhn.red.

[Technology of the immediate stripping of forms from precast reinforced concrete elements and details] Tekhnologiia nemedlennoi raspalubki sbornykh zhelezobetonnykh konstruktsii i detalei. Moskva, raspalubki sbornykh zhelezobetonnykh konstruktsii i detalei. Moskva, 1959. 54 p. (Moskovskii dom nauchno-tekhnicheskoi propagandy. Peredovoi opyt proizvodstva. Seriia: Stroitel'stvo, no.?).

(Concrete construction-Formwork)

SOV/97-59-3-2/15

Scroker, V. I., Doctor of Technical Sciences, Spirak, N.Ya., Candidate of Technical Sciences and Sckolov, V. A. Engineer AUTHORS:

Casting of Hollow and Multiribbed Thin Reinforced Concrete TITLE:

Panels in "Cassette" Forms

PERIODICAL: Beton i zhelezobeton, 1959, Nr 3, pp 100-103 (USSR)

ABSTRACT: "Cassette" forms have advantages over stand and conveyor systems of casting in that the product has a straight, smooth face ready for the application of paint; they allow more efficient ouring, which results in acceleration of hardening of the concrete and in a much lower consumption of steel for reinforcement. Their disadvantage is the impracticability of using vibration for consolidation. For effective use to be made of these forms the problem of vibration as well as the casting of hollow and multiribbed thin panels will have to be solved. ASIA USSR, NIIZbelozobeton and Giprostroyindustriya have worked on

the programme of conscilidation necessary when the "cassette" form is used. Testing of methods of vibrating these forms form 1/4 is proceeding in various factories: for example, Nr 12

SOV/97-59-5-2/15

Casting of Hollow and Multiribbed Thir Reinforest Comprete Pacels in "Consette" Forms

Glavmospromstroymaterial, where "cossette" forms are being used in conjunction with a vibrating displacem (dividing wall) (Fig 1). Consolidation by vibration results in harder concrete, which allows a sering of cameri, as shown in the table on p 100. The Salerwiffe Research Institute for Technology and Organization of Projection, and the Institute for Mousing alaborated a "cassence" form for rabbed products, by consolidation of concrete mines using the reinforcement as a means of vibration. Effective consolidation in such a case depends on the type of reinforcement. Unfortunately these methods to not allow the use of moderately stiff concrete mines, or of forming slabs thinner than 4 cm. The authors of this article worked out technological details and methods of casting bollow and thin ribbed slabs in "cassette" forms (panels lesigned by G. F. Kaznetsov, T.A. Antipov and N. V. Morozov of the Institute for Physics of Publicing and Enclosing Structures of the Academy of Building and Architecture

Card 2/4

SOV/97-59-3-2/15

Casting of Hollow and Multiribbed Thin Reinforced Concrete Panels in "Castette" Forms

of the USSR (Institut streitelinoy fiziki i ograzhdayushchikh konstruktsiy ASiA SSSR). On the basis of experiments carried out by NIIZhelezobeton two methods of production were worked out using the "cassette" form vertically. The first method uses a set of inserts forming hollows on a vibrating cross-beam; the second uses "floating" vibrating caissons. The experimental hollow panel is illustrated in Fig 2. Figs 3 and 4 illustrate a set of hollow-forming inserts joined to a vibrating cross-beam. Stiff concrete mix with a slump test value of 2 cm can be used for casting concrete walls 12 - 20 mm thick. This is possible as a result of intensive internal vibration applied through the hollow-forming tubes. The distribution of amplitudes of vibration along the length of the hollowforming tube is shown in Fig 5. Fig 6 shows Jacks used for removal of tubes from the concrete. Dismantleable forms used in Factory No 12 proved to be satisfactory. The vibration of the hollow-forming tubes has an amplitude of at Card 3/4 least 0.35 mm and frequency of 2800 vibrations per minute.

SOV/97-59-3-2/15

Casting of Hollow and Multiribbed Thin Relaforced Concrete Panels in "Castette" Forms

Ribbel panels are past in the same form as bollow slabs, the metal partitions being replaced by a special rib-forming unit with vibrator. Fig 7 shows such a ribbed slab of 5 m x 1.4 m. The special inserts, which contain the wibrators, rest on rubber pads which do not inserfere with the vibracien, allowing a frequency of 2800 vibrations per minute and an amplitude of at least 0.35 mm. The technological process of vertical casting of these slab; is les-eribed in detail. Tests showed that inclus casting the dividing wall viorates, due to resonance, with an amplitude 10-12% smaller than the amplitude of the insert, and this vabration is sufficient to consolidate convrete in adjoining areas. The method of casting multirioned pamers in vertical forms is shown in Fig 8. Use of this form and method of casting allows manufacture not only of thin flat units but also of ribbed and hollow wall units 12 mm thick. A high-quality surface is achieved which is not obtainable by other casting processes. There are 8 figures and 1 table.

Card 4/4

STASEVICH, Aleksey Mikhaylovich, inzh.; SOKOLOV, Vladimir Aleksandrovich, kand.tekhn.nauk; MKRTUMYAN, A.K., nauchnyy red.; GLEZAROVA, I.L., red.izd-va; RYAZANOV, P.Ye., tekhn.red.; HUDAKOVA, N.I., tekhn.red.

[Making reinforced-concrete elements of large-panel houses in vertical molds; practices of the Khoroshevo branch of the Moscow Housing Construction Combine No.1] Izgotovlenie zhelezobetonnykh detalei krupnopanel nykh domov v vertikal nykh kassetakh; opyt Khoroshevskogo filiala Moskovskogo domostroitel nogo kombinata No.1. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1960. 72 p.

(Moscow--Precast concrete construction)

SOKOLOV, Vladimir Aleksandrovich, kand. tekhn. nauk, starshiy nauchnyy sotr.; POLUBNEVA, V.I., inzh., red.;

[Manufacture of parts for series I-464 apartment houses] Izgotovlenie detalei dlia domov serii I-464; opyt zavodov Glavmospromstroimaterialov. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1961. 52 p.

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut organizatsi; mekhanizatsii tekhnicheskoy pomoshchi stroitel'stvu. Byuro tekhnicheskoy informatsii. 2. Nauchno-issledovatel'skiy institut zhelezobetonnykh izdeliy i nerudnykh materialov Glavnogo upravleniya promyshlennosti stroitel'nykh materialov i stroitel'nykh detaley (for Sokolov).

(Apartment houses) (Precast concrete)

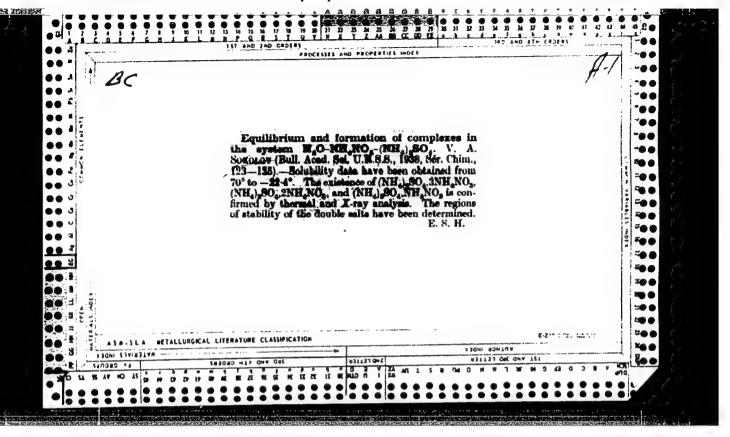
BALAT'YEV, Pavel Konstantinovich, kand.tekhn.nauk; SOKOLOV, Vladimir Aleksandrovich, kand.tekhn.nauk; POLUHNEVA, V.I., inzh., red.

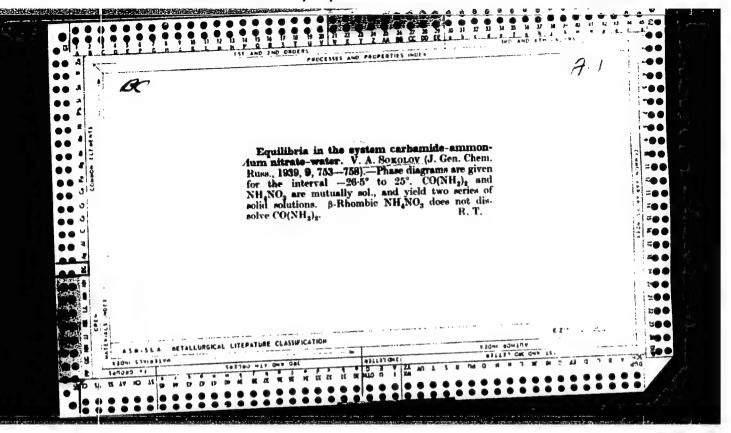
[Repeated vibration in the production of rainforced concrete panels in formworks; practices of factory No.12 of the Main Administration of the Building Materials Industry, attached to the Executive Committee of the Moscow City Council of Workers' Deputies] Povtornoe vibrirovanie pri kassetnom proizvodstve zhelezobetonnykh panelei; opyt zavoda nr.12 Glavmospromstroimaterialov. Moskva, Gosstroiizdat, 1962. 22 p. (MIRA 17:6)

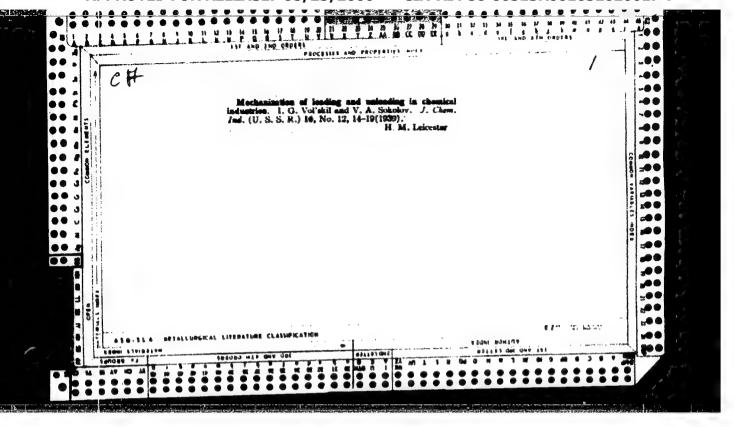
1. Akademiya stroitel'stva i arkhitektury SSSR. Nauchnoissledovatel'skiy institut organizatsii, mekhanizatsii i
terhnicheskov pomoshchi stroitel'stvu. 2. Zamestitel' direktor. po nauchnoy chasti Gosudarstvennogo nauchno-issledovatel'skogo instituta zhelezobetonnykh izdeliy, stroitel'nykh i nerudnykh materialov (for Balat'yev). 3. Starshiy nauchnyy sotrudnik Gosudarstvennogo nauchno-issledovatel'skogo instituta zhelezobetonnykh izdeliy, stroitel'nykh i nerudnykh materialov (for
Sokolov).

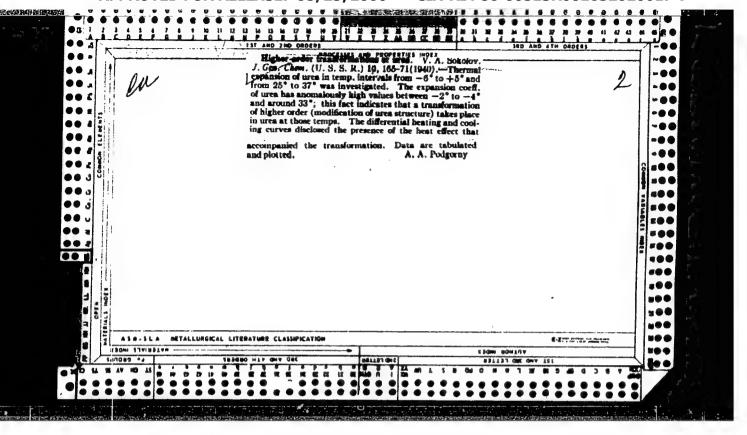
SOKOLOV, V.A., inzh.

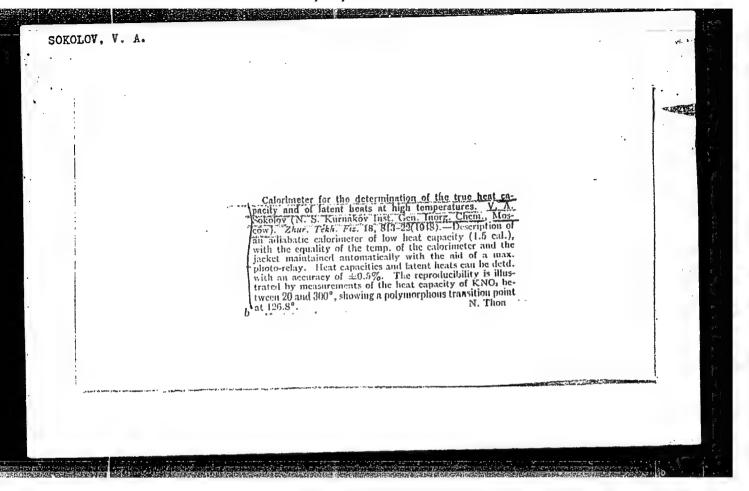
New standards for various types of heavy concrete and their fillers for use in shipbuilding. Sudostroenie 30 no.2:47-48 F '64. (MTRA 17:4)

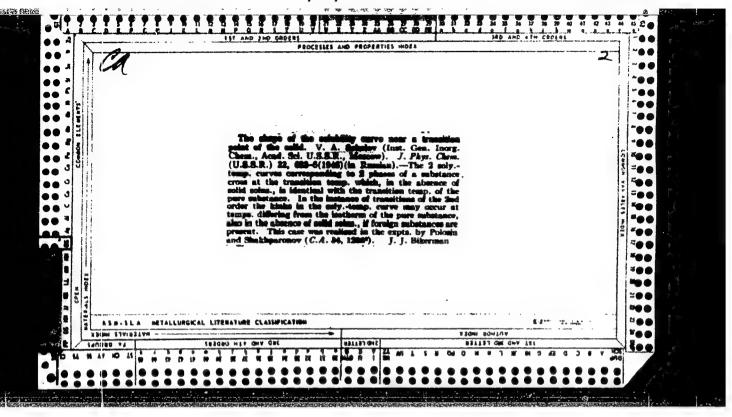


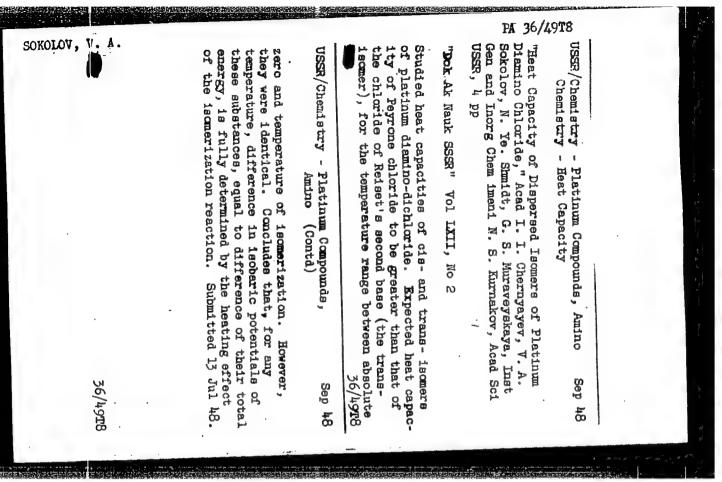


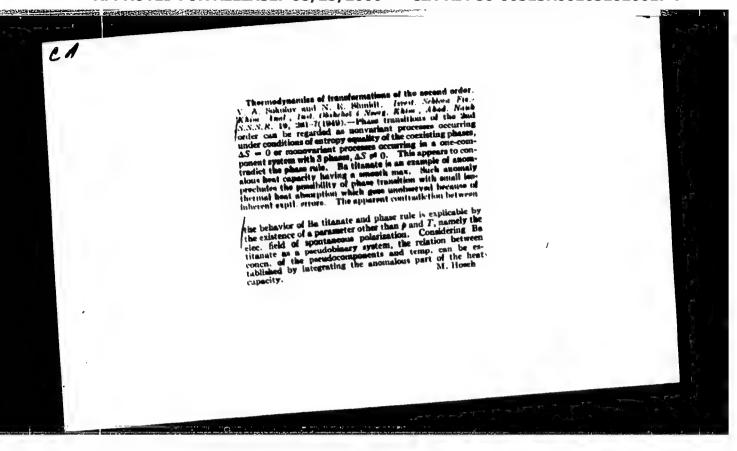


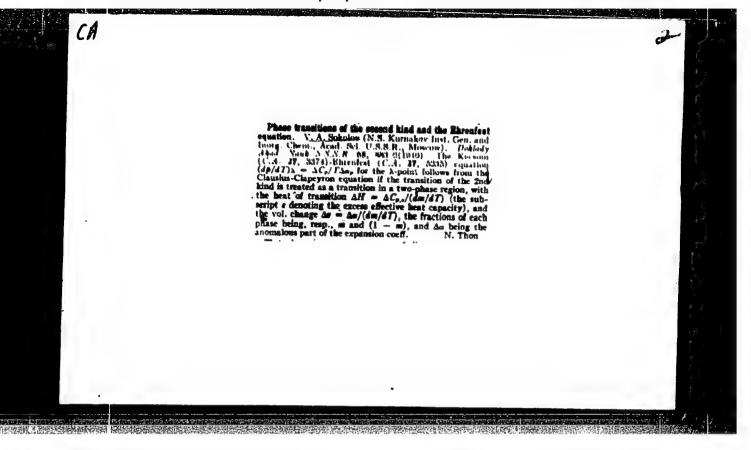










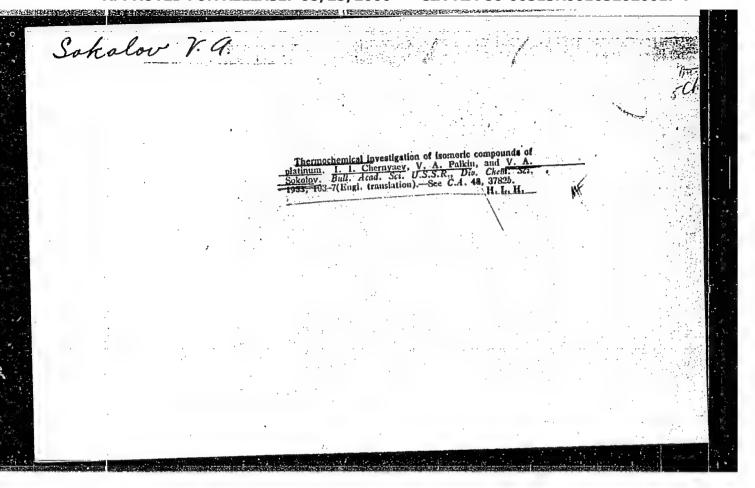


Sokolov, V.A.

THE REPORT OF THE PARTY OF THE

The modynamics of Phase Transitions of the Second Order. V. A. Gololov. (Doklady Akad. Nauk S.S.R.R.) 1951, 77, 63, 843–846).—[In Russian]. The theory of phase transitions of the second order is characterized by the introduction into the equation for thermodynamic potential (C) of an additional parameter κ , whose magnitude is determined by the additional internal energy A_{κ} (zero or very small for one phase), heat capacity; expansion, &c. Then $A_{\kappa} = \alpha A^2$ and the internal energy $E = U(T, v, \kappa) + \alpha \kappa^2$, where $U(T, v, \kappa)$ is the vibrational part, whilst $\zeta = E - TS - \alpha \kappa^2$ $U(T, v, \kappa)$ and $C_{\kappa} = SdT - pdv - 2\alpha\kappa d\kappa$. At equilibrium (min. 1) and count. v, $2\alpha\kappa$ will be a function only of temp. Hence the additional heat-capacity $c_{\kappa} = 2\alpha T(\partial L/\partial T)_{\kappa}$, and in the ideal case $c_{\kappa} = (2aL) - (2aL) U/\partial T$. Expressions are also given for the additional heat-capacity at const. pressure: $c_{p,\kappa d} = T\left(\frac{\partial L}{\partial T}\right)^2 - p\left(\frac{\partial L}{\partial p}\right)_{\pi}\left(\frac{\partial L}{\partial T}\right)_{\kappa}$ and the additional pressure-coeff. $\left(\frac{\partial p}{\partial T}\right)_{\kappa,\kappa d} = 2\alpha\left(\frac{\partial L}{\partial v}\right) \left(\frac{\partial L}{\partial T}\right)_{\kappa}$ and the additional compressibility: $\left(\frac{\partial p}{\partial T}\right)_{\pi,\kappa d} = 2\alpha\left(\frac{\partial L}{\partial v}\right)^2$. According to Bragg and Williams' theory of disordering (Proc. Roy. Soc., 1934. [A], 145, 609; M.A.; 1, 348), $A_{k,l} = \frac{1}{2}NV\left(1-\xi_k^2\right)$, where N is Avogador's number, W the work for two atoms changing place, and ξ the degree of disorder. Hence for the general case $c_{k,l} = T\frac{NV}{2} \left(\frac{d\xi}{dT}\right)^2$ and for the ideal case $c_{k,l} = \frac{NV}{2} \left(\frac{d\xi}{dT}\right)^2$ and for the ideal case $c_{k,l} = \frac{NV}{2} \left(\frac{d\xi}{dT}\right)^2$ and for the ideal case $c_{k,l} = \frac{NV}{2} \left(\frac{d\xi}{dT}\right)^2$ and for the ideal case $c_{k,l} = \frac{NV}{2} \left(\frac{d\xi}{dT}\right)^2$ and for the ideal case $c_{k,l} = \frac{NV}{2} \left(\frac{d\xi}{dT}\right)^2$ and for the ideal case $c_{k,l} = \frac{NV}{2} \left(\frac{d\xi}{dT}\right)^2$ and for the ideal case $c_{k,l} = \frac{NV}{2} \left(\frac{d\xi}{dT}\right)^2$ and for the ideal case $c_{k,l} = \frac{NV}{2} \left(\frac{d\xi}{dT}\right)^2$. $\frac{N|T}{2} \xi \frac{d\xi}{dT}$ (the equation obtained by B. and W.). By means: of the approximation $\tanh^{-1}\xi \approx \xi$ (as in obtaining Curie's law for paramagnetics from Langevin's equation), S. derives the expression $-\xi = \tanh\left(\frac{W}{2kT}T\frac{\xi^2}{1-\xi^2},\frac{d\xi}{dT}\right)$, which in the ideal case reduces to B. and W.'s equation. Whereas B.

and W. obtained the value R (R being the gas const.) for the limiting c_{ad} at the Curie point, S shows that it is ∞ , i.e. in the case of non-ideal disordering c_{ad} increases rapidly near the Curie point, as observed experimentally. If the parameter $\xi = -\alpha/\beta$ (where α and β are the coeff. in the resolution of the thermodynamic potential into a series: $\Phi(\xi, p, T) = \Phi_c(p, T) + \alpha(p, T)\xi + \frac{1}{2}(p, T)\xi^2$) introduced by Landau and Lifshits ("Statisticheskaya Friika "1940) be used, then the equation for c_{ad} becomes $c_{ad} = \frac{\gamma}{\beta} \left(\frac{\partial \alpha}{\partial T}\right)^2$ as obtained by Landau and L. An expression for the heat capacity near the Curie equation for c_{ab} becomes $c_{ab} = \frac{1}{\beta} \left(\frac{\omega_a}{\partial T} \right)$ as obtained by L. and L. An expression for the heat capacity near the Curio point similar to that obtained by L. and L. can also be deduced. This scheme of reasoning can be applied to orientation molting and to the consideration of anomalous heat-capacity in pseudo-binary systems. The explanation of Smite phase transitions of the second order is obtained as a special case; they may be divided into two classes (cf. also S., Dokhady Akad. Nauk S.S.S. R., 1949, 65, 883): (1) non-variant, which take place at the transition point, after the state of one of the phases had gradually changed on approaching the point, consequent upon changes in κ_c and (2) monovariant. The first represents Semenchenko's false Curie point (Zhur. Fiz. Khim., 1947, 21, 1461); the second, the true Curie point.



"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001652020017-7

ZHUKHOVITSKIY, A.A.; TURKEL'TAUB, N.M.; SOKOLOV, V.A.

Theory of chromathermography. Doklady Akad. Nauk S.S.S.R. 88, 859-62 '53.
(GA 47 no.22:11882 '53)

(GA 47 no.22:11882 '53)

SOKOLOV, V.A., red.

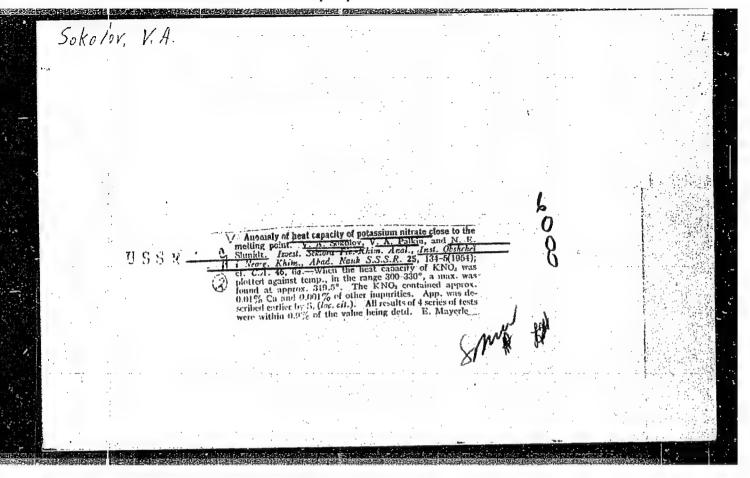
[Methods of measuring temperature; a collection of articles]

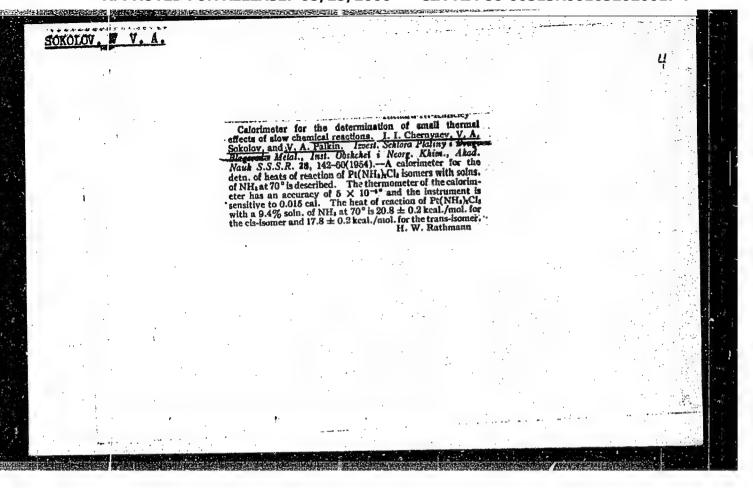
Metody izmereniia temperatury; sbornik statei pod red. V.A.

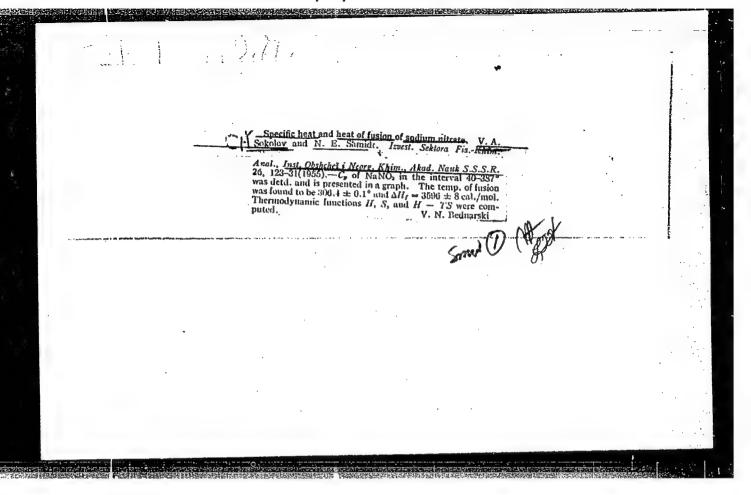
Sokolova. Moskva. Izd-vo inostr.lit-ry, 1954. 1 v.

(Thermometry)

(Thermometry)







USSR/ Physical Chemistry - Thermodynamics. Thermochemistry. Equilibrium. Physicochemical analysis. Phase transitions

B-8

: Referat Zhur - Khimiya, No 4, 1957, 11137

HERE EFFICIENTS OF THE STANDARD FOR STANDARD

Sokolov V.A., Shmidt N.Ye. Author

Institute of General and Inorganic Chemistry, Academy of Sciences USSR Inst Title

: Heat Capacity, Heat of Transformation and Heat of Fusion of Potassium

Nitrate

Orig Pub : Izv. Sektora fiz.-khim. analiza IONKh AN SSSR, 1956, 27, 217-222

Abstract : By the method of periodic heating (RZhKhim, 1956, 6358) in the interval 32-394° C, heat capacity C_p of KNO₃ was determined (130 points). Determined were temperature of transformation (127.9 - 0.1°C), heat of trans-

formation (1218 - 5 cal/mole), point of fusion (334.3 ± 0.1°C) and heat of fusion (2300 ± 5 cal/mole). In the interval 25 - 670°K were calculated and tabulated the values of enthalpy, entropy and isobaric poten-

tial; S298.16 = 31.72 entropy units.

Card 1/1

Abs Jour

ANOSOV, Viktor Yakovlevich; SOKOLOV, V.A., doktor khim.nauk, otv.red.; KOTOV, I.I., red.izd-va; ZELENKOVA, Ye.V., tekhn.red.

[Geometry of chemical diagrams of binary systems; conversion of coordinates on diagrams of binary systems] Geometriia khimi-cheskikh diagramm dvoinykh sistem; o preobrasovanii koordinat na diagrammakh dvoinykh sistem. Moskva, Izd-vo Akad.nauk SSSR, 1959. 184 p. (MIRA 12:6)

(Systems (Chemistry))

L'VOV, Sergey Vasil'yevich; SQKOLOV, V.A., doktor khim.nauk, otv.red.; BANKVITSER, A.L., red.12d-va. ASTAF'YEVA, G.A., tekhn.red.

[Certain problems in the rectification of binary and multicomponent mixtures] Nekotorye voprosy rektifikatsii binarnykh i mnogokomponentnykh smesei. Moskva, Izd-vo Akad.nauk SSSR, 1960. 165 p. (MIRA 13:3)

(Distillation, Fractional)

BANASHEM, Ye.I.; RUBINCHIK, S.M.; SOKOLOV, V.A.; FL'KIND, S.A.

System for thermostatic control of a furnace up to 1,400° C. Prib. i tekh.eksp. no.2:156-158 Mr-Ap '60. (MIRA 13:7)

1. Institut obshchey i neorganicheskoy khimii AN SSSR. (Thermostat)

Scholory & A:

S/078/60/005/008/001/018 B004/B052

AUTHORS:

Shmidt, N. Ye., Sokolov, V. A.

TITLE:

Adiabatic Calorimeter for the Determination of the Actual

Specific Heats of Substances of Low Thermal Conductivity
in the Range of 30-750°. The Specific Heat of Corundum

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1960, Vol. 5, No. 8,

pp. 1641-1649

TEXT: The authors based their work upon a paper (Ref. 1) by the author mentioned second who in 1948 designed a calorimeter for temperatures ranging between 30 and 400°C. This calorimeter could not be used for higher temperatures, since its heat exchange then became too high. The authors discuss the drop in temperature in substances of low thermal conductivity, and describe a newly designed calorimeter for temperatures between 25° and 750°C. The drop in temperature is kept low by way of the small volume of the apparatus, and the low loss of heat along the conducting wires. Fig. 1 shows the cross section of an apparatus consisting of the actual calorimeter, three shieldings for guaranteeing the adiabatic

Card 1/4

Adiabatic Calorimeter for the Determination of the Actual Specific Heats of Substances of Low Thermal Conductivity in the Range of 30-750°. The Specific Heat of Corundum S/078/60/005/008/001/018 B004/B052

condition, and a number of insulating covers made of stainless steel and aluminum. The actual calorimeter is shown in Fig. 2; as compared to that of 1948, it has remained unchanged. Heater and resistance thermometer are similar to P. G. Strelkov's standard thermometer (Ref. 24). The three shieldings are described in detail. They are cylindrical and contain heating elements made of nichrome bands (Fig. 5) wound round a quartz frame work; they are regulated by means of PtRh (10%) - AuPd (40%) thermocouples. The shielding layers consist of 0.1 mm platinum sheets, since silver proved to be unstable at temperatures over 720°C (Fig. 3), and 38 IT (EYAIT) steel delays the temperature balance (Fig. 4). Fig. 6 shows the circuit for the temperature regulation of the shieldings. The temperature is taken by means of a platinum resistance thermometer and a KN-48%(KL-48) potentiometer. The platinum resistance thermometer was calibrated at the triple point of water, the boiling point of water, and, contrasting with the international scale, at the melting point of antimony instead of the boiling point of sulfur. This deviation was compensated by comparison with the

. Card 2/4

Adiabatic Calorimeter for the Datermination of the Actual Specific Heats of Substances of Low Thermal Conductivity in the Range of 30-750°. The Specific Heat of Corundum S/078/60/005/008/001/018 BC04/B052

standard resistance thermometer No. 124 of the laboratory. After the determination of the heat value of the calorimeter, the stability of the thermometer indications was checked by measurement of the transformation point of Na₂SO₄·10H₂O (Table 1), and transformation and melting points of KNO₃. The electric work was determined by means of a Raps compensator of the workshops of the Vsesoyuznyy institut mer i standartov (All-Union Institute of Measures and Standards), and a second counter. In the range of 300° to 1000° K, the heat value of the calorimeter fluctuates by 5% (Fig.7). The temperature drop in the calorimeter was found to be at the transformation point 117.9° C of KNO₃. In slow processes, the temperature threshold is not reached. The latter was computed according to M. A. Reshetnikov's equation (Ref. 29), the applicability of which has been examined in a previous paper (Ref. 22). Finally, the determination of the specific heat of two samples of synthetic corundum is described, and their spectroscopic data determined by V. L. Ginzburg, are given. Table 2 shows that the scattering of the measured values does not exceed ± 0.5%, and the values Card 3/4

Adiabatic Calorimeter for the Determination of the Actual Specific Heats of Substances of Low Thermal Conductivity in the Range of 30-750°. The Specific Heat of Corundum

S/078/60/005/008/001/018 B004/B052

are in good agreement with the published data; at 1000°K, however, they are higher than those of the US National Bureau of Standards (Fig. 8) by approximately 0.4%. There are 8 figures, 2 tables, and 31 references: 14 Soviet, 7 US, 5 British, 1 Canadian, and 4 German.

SUBMITTED:

February 12, 1960

Card 4/4

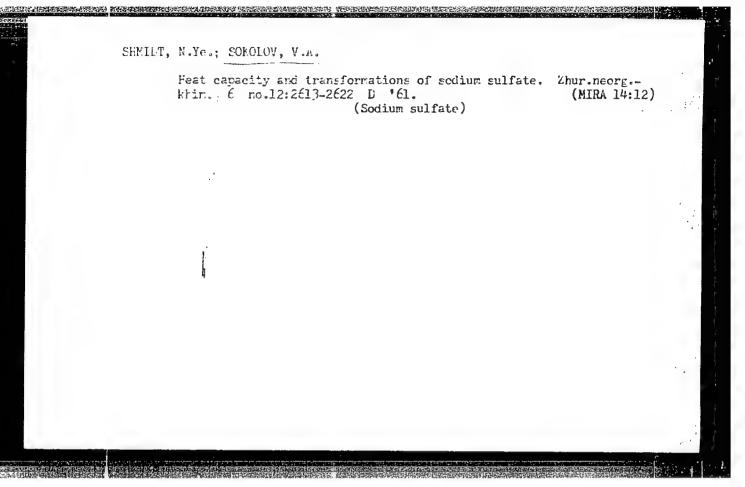
SOKOLOVA, I.D.; SOKOLOV, V.A.

Surface tension of fused salts. Part 1: Methods of measurement. Zhur.fiz.khim. 34 no.9:1987-1990 S '60. (MIRA 13:9)

1. Akademiya nauk SSSR, Institut obshchey i neorganicheskoy khimii im. N.S.Kurnakova.

(Salts)

(Surface tension)



Tolsqoy, N.A.; Sokolov, V.A.

Luminescence of thallium chloride simple crystals. Izv.Al. SSS., Cic. (ELA 1992)

(Thallium chloride-orystals--Spectra)

38379

24.3500

S/070/62/007/003/006/026 E132/E460

AUTHOR:

Sokolov, V.A., Tolstoy, N.A.

TITLE:

Single crystals of the halides of thallium and

certain of their properties

PERIODICAL: Kristallografiya, v.7, no.3, 1962, 389-393

TEXT: Crystals of specially pure TICl and TIBr were grown by D. Stockbarger's method (J. Opt. Soc. Amer., v.39, 1949, 731). The crystals were grown in sealed pyrex glass ampules, the materials having been outgassed under vacuum at 170 to 200°C for 4 to 5 hours. A diagram of the apparatus is given. Their luminescence properties were studied. It was found that short wavelength luminescence is a property of these compounds in the crystalline state when the number of defects is a minimum. Long wavelength luminescence is connected with the presence of mechanical defects and an increase at the long wavelength end of the spectrum is accompanied by a decrease at the other end. The luminescence was measured at liquid nitrogen temperature after annealing at 250°C. There are 6 figures.

SUBMITTED: June 9, 1961

Card 1/1

s/076/62/036/003/010/011 B119/B108

AUTHOR:

Sokolov, V. A.

Viktor Yakovlevich Anosov (On his 70th birthday)

TITLE:

Zhurnal fizicheskoy khimii, v. 36, no. 3, 1962, 665

PERIODICAL:

TEXT: V. Ya. Anosov was born in Saratov on November 10, 1891, and had studied at Peterburgskiy gornyy institut (Peterburg Mining Institute) and the khimicheskoye otdeleniye fiziko-matematicheskogo fakuliteta Saratovskogo universiteta (Chemical Department of the Division of Physics and Mathematics of Saratov University) with Ye. S. Fedorov, I. V. Shreder, N. S. Kurnakov, and P. P. Veymarn. In 1918, he had started his pedagogical activity at the schools of higher education in Saratov; in 1929 - 32, he was a professor at Perm' University, until 1935 at the Pedagogicheskiy institut im. Gertsena (Pedagogical Institute imeni Gertsen) in Leningrad, until 1938 at the Moskovskiy institut stali (Moscow Steel Institute), and until 1941 at the Moskovskiy universitet im. Lomonosova (Moscow University imeni Lomonosov). From 1933, he worked at the Laboratoriya obshchey khimii Akademii nauk (Laboratory of General Chemistry of the Academy of

Card 1/2

CIA-RDP86-00513R001652020017 APPROVED FOR RELEASE: 08/25/2000

GAYOMMERNA, C.M., EMBIROMER, S.M., COSCOLV, V.A.

Rests of solvation of ferromens. Zour. meorg tham, 5 de laux A.

2416 7 163.

1. Institut commonly I managaricrookey khimil two Pornakoro or

2226.

SCKOLOV, V.A.; BANASHEK, Ye.I.; RUBINCHIK, S.M.

Enthalpy of corundum in the 678 - 1330°K temperature range. Zhur. neorg.khim. 8 no.9:2017-2020 S '63. (MIRA 16:10)

1. Institut obshchey i neorganicheskoy khimii imeni N.S.Kurnakova AN SSSR.

SKURATOV, Sergey Mikhaylovich; KOLESOV, Viktor Petrovich; VOROB'YEV, Adol'f Fedorovich; SOKOLOV, V.A., nauchn. red.; KOROBISOVA, N.A., red.

[Thermochemistry] Termokhimiia. Moskva, Izd-vo Mosk. univ. Pt.l. [General data on thermometry and calorimetry] Obshchie svedeniia o termometrii i kalorimetrii. 1964. 301 p. (MIRA 17:5)

SOKOTO, N...; SHAMPATAYA, G.A.

Calorimeter of small volume for determining the heat capacity at low temperatures. Heat capacity of potassium chloride. Zhur. neorg. khim. 9 no.7:1542-1546 Jl '64. (MIRA 17:9)

1. Institut obshchey i neorganicheskoy khimii imeni N.S. Kurnakova AN SSSR.

SOKOLOV, V.A.; LEVIN, V.I.

Separation by extraction of small amounts of tellurium and molybdenum. Zhur. neorg. khim. 9 no.3:742-745 Mr *64.

(MIRA 17:3)

BENASHEK, Ye.I.; SOKOLOV, V.A.; RUBINCHIK, S.M.; FOMIN, A.I.

Measurement of corundum enthalpy at temperatures from 1290 to 1673 K. Jzv. AN SSSR. Neorg. mat. 1 no.5:698-701 My '65. (MIRA 18:10)

1. Institut obshchey i neorganicheskoy khimii imeni Kurnakova AN SSSR.

KHROMENKOV, L.G.; DZHAGATSPANYAN, R.V.; SOKOLOV, V.A.; KCRCLEV, B.M.; ZETKEN, V.I.

Structure formation in radiation sulfochlorinated polyethylene and its solutions. Vysokom.sced. 7 no.10:1776-1778 0 165.
(MIRA 18:11)

SHARPATAYA, G.A., SOKOLOV, V.A.

Specific heat of palladium tetrammine chloride over a temperature range of 105 to 290°K. Zhureneorg.khim. 10 no.4:992-993 Ap '65. (MIRA 18:6)

EWT(1)/EWT(m)/EWP(t)/EWP(b) IJP(c) JD L 4446-66 ACCESSION NR: AP5017897 UR/0051/65/019/001/0097/0101 535.377 AUTHORS: Sokolov Tolstoy, N. A. 44.55 TITLE: Thermal afterglow and thermostimulated current in TlC1 single crystals SOURCE: Optika i spektroskopiya, v. 19, no. 1, 1965, 97-101 TOPIC TAGS: luminescence, thallium compound, thermoluminescence, crystal lattice defect, optic transition ABSTRACT: This is a continuation of earlier work (Sb. 'Fizika shchelochno galoidnykh kristallov (II Vses. sovestch.) [Collection Physics of alkali halide crystals, Second All-Union Conference, p. 411, Riga, 1962), where it was shown that luminescence of thallium chloride undergoes strong temperature quenching when heated above 160C. To determine the level spectrum in the forbidden band and its variations in single crystals of thallium chlorides from different sources, which have different luminescence spectra, the authors in-Card 1./4

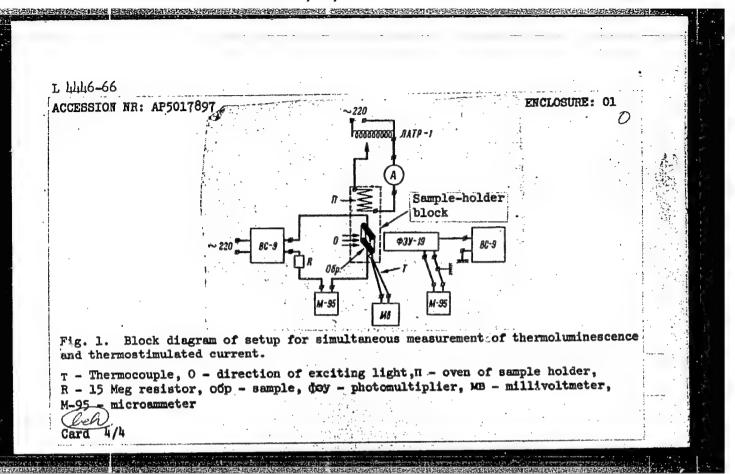
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ACCESSION NR: AP5017897

vestigated the thermoluminescence and at the same time also the thermostimulated current (TSC) in the same single crystal specimens of TICL. A block diagram of the experimental setup for the simultaneous measurement is shown in Fig. 1 of the Enclosure. The crystals were excited at -1900 with the 365-nm mercury line for five minutes, which was adequate for an equilibrium population of the capture levels. All the investigated single-crystal TlC1 specimens displayed thermal afterglow (TA) and TSC. Specimens from different lots had similar shapes of TA and TSC curves, but different luminescence spectra. Different specimens cut from the same crystal (with similar luminescence spectra) may have different ratios of the peak maxima of the TA and TSC curves. The peaks of the TA and TSC of all the TlCl specimens lie within narrow temperature ranges. The net result is that the capture levels of the carriers in single TIC1 crystals are connected with the intrinsic defects of the crystal lattice, and that the luminescence mechanism of this sort, when excited by the band-band transition, is similar to the Schoen-Klasens mechanism. Orig. art. has: 5 figures and 1 table.

Card 2/4.

L 14416-66	•	-				
ACCESSION NR: AP50	17897					0
ASSOCIATION: None			•			
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SOKOLOV, V.A.; KOLESOV, V.P.; VOROB'YEV, A.F.

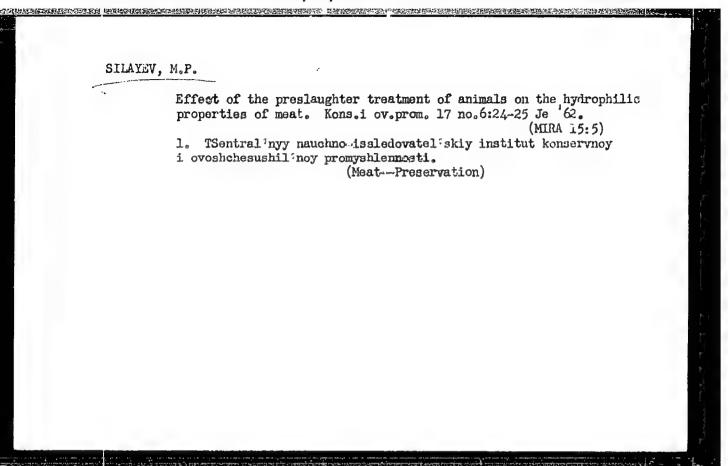
Recommendations regarding the publication of results of calorimetric measurements. Zhur. fiz. khim. 39 no.5:1298-1299 My '65. (MIRA 18:8)

SILAYEV, M. P.

Changes in the carbohydrate-phosphorus metabolism in muscle tissue under the influence of gamma irradiation. Radiobiologiia 2 no.3:387-389 '62. (MIRA 15:7)

1. Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy promyshlennosti.

(GAMMA RAYS—PHYSIOLOGICAL EFFECT) (CARBOHYDRATE METABOLISM) (PHOSPHORUS METABOLISM)



KUZIN, A.M.; SILAYEV, M.P.

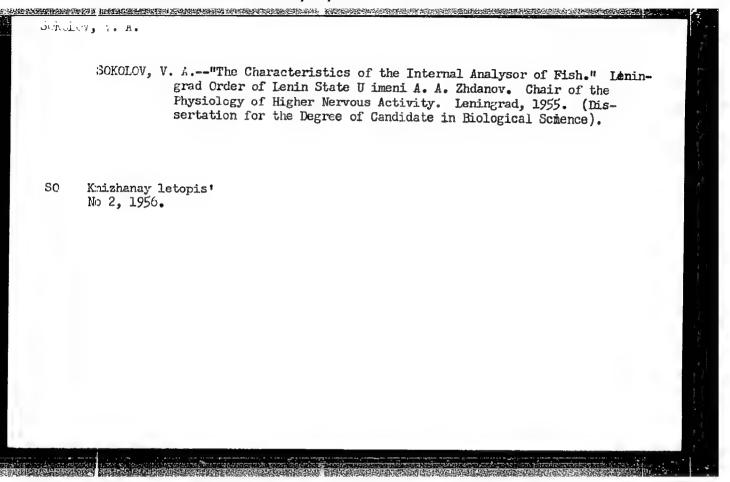
New possibility for using ionizing radiation in the meat industry. Radiobiologiia 3 no.4:545-548 '63. (MIRA 17:2)

1. Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy promyshlennosti.

SOKOLOV, V.A.

Conditioned reflex upon stimulation of the air bladder in fish. Trudy Inst.fiziol. no.2:352-363 53. (MLRA 7:5)

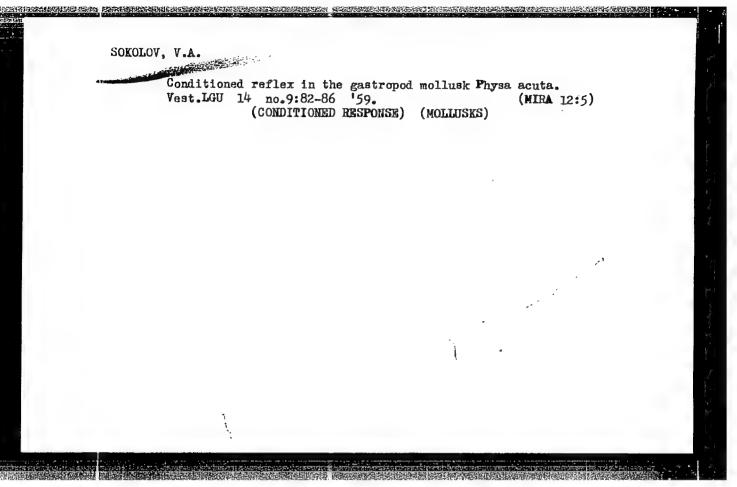
1. Laboratoriya interotseptivnykh uslovnykh refleksov Instituta fiziologii im. I.P.Pavlova Akademii nauk SSSR i Laboratoriya fiziologii vyashey nervnoy deyatel nosti Leningradzkogo Gosudarstvennogo ordena Lenina universiteta im. A.A.Zhdanova (zaveduyushchiy - E.Sh.Ayrapet'yants). (Coaditioned response) (Fishes-Physiology)



SOKOLOY, V.A.

Phasic conditions during the development of differentiation in fishes. Uch. zap. IGU no.239:121-126 '58. (MIRA 12:1)

l. Laboratoriya fiziologii vysshey nervnoy deyatel nosti Piziologicheskogo instituta Leningradskogo gosudarstvennogo universiteta. (CONDITIONED RESPONSE)



Mechanism of buoyancy variation in fishes [with summary in English]. Fiziol.zhur. 45 no.2:177-185 F '59. (MIRA 12:3) 1. From the laboratory of higher nervous system physiology, Leningrad University, Leningrad. (FISH. repeat title (Rus))

SOKOLOV, V.A.

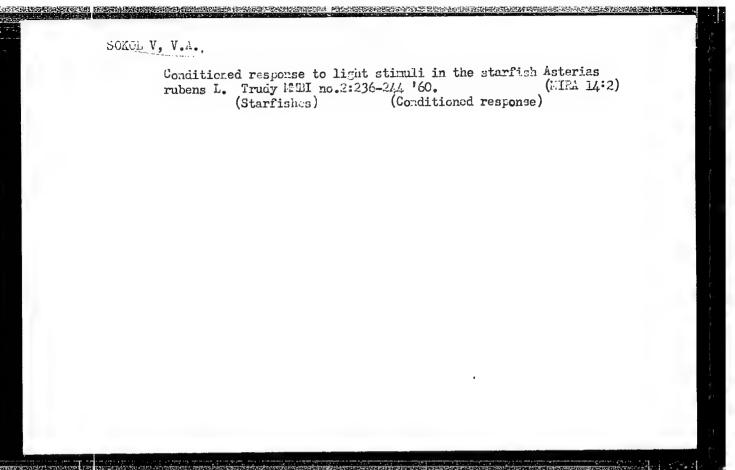
Functional connections of the swim bladder in fishes with the higher sections of the brain. Vop. sr.v. fiziol. anal. no. 1:182-189 '60. (MIRA 14:4)

1. The Higher Nervous Activity Physiological Laboratory, University of Leningrad.

(ATR BLADDER (IN FISHES)) (CONDITIONED RESPONSE)

(AIR BLADDER (IN FISHES)) (CONDITIONED RESPONSE)
(BRAIN)

Unconditioned responses of crawfish to sodium chloride solutions. Vop. srav. fiziol. anal. no. 1:190-195 '60. (MIRA 14:4) 1. The Higher Nervous Activity Physiological Laboratory, University of Leningrad. (REFLEXES) (SALT—PHYSICLOGICAL EFFECT) (ORIENTATION)



 SOKOLOV, V.A.

Tactile conditioned reflex in the starfish Asterias rubens L.
Trudy MMBI no.3:49-54 '61. (MITA 15:3)

l. Laboratoriya sravnitel'noy fiziologii (zav.-E.Sh.Ayrapet'yants) Murmanskogo morskogo biologicheskogo instituta. (Starfishes)(Conditioned response)

SOKOLOV, V.A.; ASTAF'YEVA, L.A.

Destruction of gastric tissues in the starfish Asterias rubens L. as a response to changes in the environmental conditions. Trudy MMBI no.3:55-60 '61. (MIRA 15:3)

SOKOLOV, V.A.

Races of young herring in Aniva Gulf. Vop. ikht. 2 no.1:73-78
'62. (MIRA 15:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut morskogo rybnogo khozyaystva i okeanografii (VNIRO), Moskva.

(ANIVA GULF---HERRING)

SOKOLOV, V. A.

Origin of the two concentration areas of the Sakhalin-Hokkaido herring fry. Vop. ikht. 2 no.3:473-479 '62. (MIRA 15:10)

1. Vsesoyuznyy nauchno-issledovatel skiy institut morskogo rybnogo khozyaystva i okeanografii - VNIRO, Moskva.

(Sakhalin—Herring) (Hokkaido Island—Herring)

SOKOLOV, V.A., inzh.; UZIYENKO, A.M., inzh.

Increasing the durability of back-up rolls on four-high mills.
Stal' 22 no.8:737-739 Ag '62. (MIRA 15:7)

1. Magnitogorskiy metallurgicheskiy kombinat.

(Rolls (Iron mills))

HYABCHIKOV, F.D., inzh.; KUSTOBAYEV, G.G., inzh.; SOKOLOV, V.A., inzh.; KHISAMOV, F.N., inzh.

Accelerating the cooling of sheet steel in bell furnaces. Stal' 22 no.8:748-749 Ag '62. (MIRA 15:7)

SOKOLOV, V.A., inzh.; LEVINA, G.G., inzh.; Prinimali uchastiye: DUKHIN, I.S.; KOLOV, M.I.; SOSNOVSKAYA, Z.N.

Increasing the durability of steel rolls for strip mills.
Stal' 22 no.9:821-823 S '62. (MIRA 15:11)

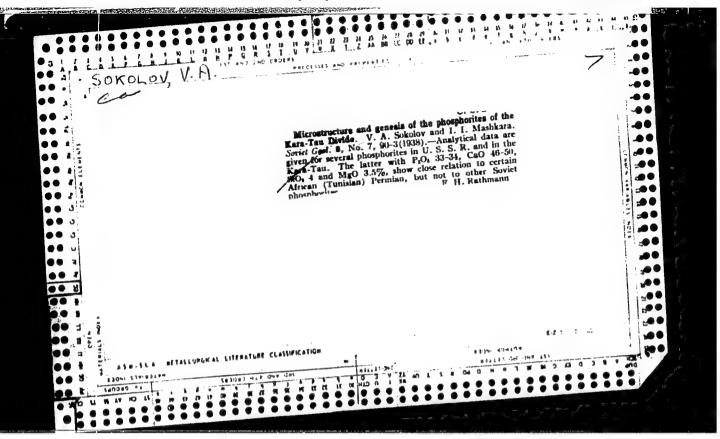
1. Magnitogorskiy metallurgicheskiy kombinat.
 (Rolls (Iron mills)) (Steel--Heat treatment)

SOKOLOV, V.A.; NOVIKOV, A.N.; MOROZOV, P.M.

Surfacing rolls with hard alloys. Metallurg 8 no.8:29 Ag (MIRA 16:10)

1. Magnitogorskiy metallurgicheskiy kombinat.

EWT(d)/EWT(m)/EWP(v)/EWP(t)/ETI/EWP(k)/EWP(h)/EWP(1) L 47167-66 SOURCE CODE: UR/0137/65/000/009/D005/D005 ACC NRI AR6000437 JD/HW AUTHORS: Vysokovskiy, S. N.; Rannev, G. G.; Sokolov, V. A.; Andreyuk, L. V.; Merkulova, R. M. TITLE: Energy and temperature parameters for rolling of thin sheets from different steels and alloys on stand "1500" SOURCE: Ref. zh. Metallurgiya, Abs. 9D33 REF SOURCE: Sb. Teoriya i praktika metallurgii. Vyp. 7. Chelyabinsk, 1964, 90-100 TOPIC TAGS: metal rolling, metallurgic machinery, sheet metal, stand / 1500 stand ABSTRACT: The energy and temperature parameters during hot rolling of sheets were investigated on a reversible 4-roller stand 1500. The metal pressure on the rollers, armature current, excitation current, mean square current of the motor, velocity of revolution of rollers, displacements of pressure bolts, thickness of sheets, and their temperature were determined. The results of the measurements are tabulated. Calculated results are compared with experimental data. Investigations have shown that it is possible in some cases to decrease the number of rolling operations without exceeding the maximum permissible pressure. In other cases, the redistribution of compressions between passages permitted a more uniform stand loading without exceeding the maximum permissible metal pressure on the rollers. 10 illustrations, 1 table. Bibliography of 5 citations. L. Kochenova /Translation of abstract/ SUB CODE: 13, 11 621.771.001 UDC: Card 1/1 egls



SOKOLOV V.A.

Mbr. Institute of Geological Sciences, Kazakh SSR Acad. Sci., Alma-Ata, 19u7

"The Cambtian 'Vanadium" Sea," Dok. AN, 56, No.1, 1947

SCHIELL, V. A.

"Deture and Frincipal Groups of Sedimentary Rocks," Uch. zep. Kateklak. un-te, 15, No 1, pp 11-13, 1354

The accepted division of sedimentary formations into clastogenic, chemogenic, and organogenic the author considers insufficient and proposed to distinguish the following principal groups and subgroups of sedimentary rocks: Of homogeneous genesis -- mechanical, chemical, and organic; of beterogeneous origin -- (1) bicomponent -- (a) chemicomechanical, (b) biochemical; (2) tricomponent. (R7hGeol, No 4, 1955)

Sum. No. 681, 7 Oct 55

SOKOLOV, Vladimir Alekseyevich; PANKRASHOV, A., red.; POD"YEL'SKAYA, K., tekhn.red.

[Studies of Karelian limestones, dolomites, and marbles] Ocherki o kareliskikh izvestniakakh, dolomitekh i mramore. Petrozavodsk, Gos.izd-vo Karelo-Finskoi SSR, 1955. 53 p.

(MIRA 13:11)

(Karelia--Limestone)

SOKOLOW, V.A.

Origin of the Proterozoic dolomites of the Lake Onega region in Karelia. Dokl.AN SSSR 103 no.6:1089-1091 Ag '55. (MLRA 9:1)

1.Karelo-Finskiy filial Akademii nauk SSSR. Predstavleno akademikom N.M.Strakhovym.

(Onega, Lake-Dolomite)